



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 168656**

**TO: Celine Qian**  
**Location: rem/2A64/2C70**  
**Art Unit: 1636**  
**Wednesday, October 19, 2005**

**Case Serial Number: 09/877935**

**From: Edward Hart**  
**Location: Biotech-Chem Library**  
**REM-1A55**  
**Phone: 571-272-2512**

**edward.hart@uspto.gov**

### **Search Notes**

Examiner Qian,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

Edward Hart

THIS PAGE BLANK (USPTO)

A77N: Ed Hart

ACCESS DB # 168656

FOR OFFICIAL USE ONLY

PLEASE PRINT CLEARLY

CRFE

Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: Celine Qian Examiner: 78770 Date: 10/14/05  
Art Unit: 1636 Phone Number: 2-0777 Serial Number: 08/899935  
Location (Bldg/Room#): 2A64 (Mailbox #): 2C70 Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Regulatory sequences of the mouse villin gene

Inventors (please provide full names): Pinto et al.

Earliest Priority Date: 10/9/1998

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

*Please search SEQIDNO:1, (interference only.)*

*NA 8995*

*ME*

BEST AVAILABLE COPY

RECEIVED  
OCT 17 2005  
STC/STC

STAFF USE ONLY

Searcher: \_\_\_\_\_

Searcher Phone #: \_\_\_\_\_

Searcher Location: \_\_\_\_\_

Date Searcher Picked Up: 10/18/05

Date Completed: \_\_\_\_\_

Searcher Prep & Review Time: \_\_\_\_\_

Online Time: \_\_\_\_\_

Type of Search

1 NA Sequence (#)

AA Sequence (#)

Structure (#)

Bibliographic

Litigation

Fulltext

Other

Vendors and cost where applicable

STN Dialog

Questel/Orbit Lexis/Nexis

04 Westlaw WWW/Internet

In house sequence systems

Commercial Oligomer Score/Length  
☒ Interference SPDI Encode/T-inst  
Other (specify)

THIS PAGE BLANK (USPTO)



# STIC SEARCH RESULTS FEEDBACK FORM

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher* or contact:

Mary Hale, Information Branch Supervisor  
Remsen Bldg. 01 D86  
571-272-2507

## Voluntary Results Feedback Form

BEST AVAILABLE COPY

➤ I am an examiner in Workgroup:  Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop-off or send completed forms to STIC Biotech-Chem Library Remsen Bldg.



THIS PAGE BLANK (USPTO)

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 18, 2005, 08:22:26 ; Search time 1304 Seconds  
(without alignments)

11287.047 Million cell updates/sec

Title: US-09-877-935-1

Perfect score: 8995

Sequence: 1 gatctgtgcaccaaggagca.....ctctaggtgctgtccaccatg 8995

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents\_NA.\*

- 1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*
- 2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*
- 3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*
- 4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*
- 5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq.\*
- 6: /cgn2\_6/ptodata/1/ina/backfiles.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	148.8	1.7	7208	US-09-166-186-107	Sequence 107, App
2	148.8	1.7	7208	US-09-313-932-107	Sequence 107, App
3	142.6	1.6	14707	US-09-312-762A-3	Sequence 3, Appli
4	140.4	1.6	3481	US-08-965-729A-1	Sequence 1, Appli
5	138.2	1.5	17056	US-09-245-041-3	Sequence 3, Appli
6	138.2	1.5	17056	US-09-358-055B-3	Sequence 3, Appli
7	138.2	1.5	17056	US-09-893-238-3	Sequence 3, Appli
8	138	1.5	5973	US-09-245-041-4	Sequence 4, Appli
9	138	1.5	5973	US-09-358-055B-4	Sequence 4, Appli
10	138	1.5	5973	US-09-893-238-4	Sequence 4, Appli
11	136.8	1.5	2509	US-09-319-284-1	Sequence 1, Appli
12	135.4	1.5	90050	US-09-245-041-5	Sequence 5, Appli
13	135.4	1.5	90050	US-09-358-055B-5	Sequence 5, Appli
14	135.4	1.5	90050	US-09-893-238-5	Sequence 5, Appli
15	135.2	1.5	4698	US-07-807-043B-5	Sequence 5, Appli
16	135.2	1.5	4698	US-08-299-849B-5	Sequence 5, Appli
17	135.2	1.5	4698	US-08-142-368A-5	Sequence 5, Appli
18	135.2	1.5	4698	US-08-967-727-5	Sequence 5, Appli
19	135.2	1.5	4698	US-08-037-230D-5	Sequence 5, Appli
20	135.2	1.5	4698	US-09-583-850-5	Sequence 5, Appli
21	135.2	1.5	4698	US-09-579-197-5	Sequence 5, Appli
22	135.2	1.5	4698	US-09-404-026-5	Sequence 5, Appli
23	135.2	1.5	4698	US-09-312-464-5	Sequence 5, Appli
24	134	1.5	6727	US-08-629-643A-5	Sequence 5, Appli
25	134	1.5	6727	US-09-280-799-1	Sequence 1, Appli
26	134	1.5	6727	US-09-155-884-5	Sequence 5, Appli
27	133.4	1.5	51259	US-08-781-891-209	Sequence 209, App

ALIGNMENTS

RESULT 1

US-09-166-186-107  
; Sequence 107, Application US/09166186A  
; Patent No. 6080580  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Brenda  
; APPLICANT: Bennett, C. Frank  
; APPLICANT: Butler, Madeline M.  
; APPLICANT: Shanahan, William R.  
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE MODULATION OF TNF-a EXPRESSION  
; FILE REFERENCE: ISPH-0322  
; CURRENT APPLICATION NUMBER: US/09/166.186A  
; CURRENT FILING DATE: 1998-10-05  
; NUMBER OF SEQ ID NOS: 250

SEQ ID NO 107

LENGTH: 7208

TYPE: DNA

ORGANISM: Mus musculus

FEATURE:

NAME/KEY: CDS

LOCATION: (4527..4712,5225..5279,5457..5504,5799..6217)

FEATURE:

NAME/KEY: exon

LOCATION: (4371)..(4712)

FEATURE:

NAME/KEY: intron

LOCATION: (4713)..(5224)

FEATURE:

NAME/KEY: exon

LOCATION: (5225)..(5279)

FEATURE:

NAME/KEY: intron

LOCATION: (5280)..(5456)

FEATURE:

NAME/KEY: exon

LOCATION: (5457)..(5504)

FEATURE:

NAME/KEY: intron

LOCATION: (5505)..(5798)

FEATURE:

NAME/KEY: exon

LOCATION: (5799)..(5972)

FEATURE:

PUBLICATION INFORMATION:

AUTHORS: Semon, D.

AUTHORS: Kawashima, E.

AUTHORS: Jongeneel, C. V.

AUTHORS: Shakhov, A. N.

AUTHORS: Nedospasov, S. A.

TITLE: Nucleotide sequence of the murine TNF locus, including the

TITLE: TNF-alpha (tumor necrosis factor) and TNF-beta (lymphotoxin) genes

Sequence 209, App  
Sequence 10, Appl  
Sequence 3, Appli  
Sequence 3, Appli  
Sequence 3, Appli  
Sequence 3, Appli  
Sequence 17, Appli  
Sequence 182, App  
Sequence 182, App  
Sequence 3, Appli  
Sequence 3, Appli  
Sequence 5, Appli  
Sequence 5, Appli  
Sequence 5, Appli  
Sequence 183, App  
Sequence 17, Appl  
Sequence 17, Appl  
Sequence 17, Appl

```
/ JOURNAL: Nucleic Acids Res.
/ VOLUME: 15
/ ISSUE: 21
/ PAGES: 9083-9084
/ DATE: 1987-11-11
/ DATABASE ACCESSION NUMBER: Y00467 Genbank
/ DATABASE ENTRY DATE: 1993-05-11
US-09-166-186-107

Query Match      1.7%; Score 148.8; DB 3; Length 7208;
Best Local Similarity 88.0%; Pred. No. 4.1e-29;
Matches 162; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 4574 AGAAAAAATGAAGCCAGCAGTGTGGCACACGCTTTATCCAGCAGCTTGGGAGGC 4633
Db 429 AAAAAAAAAAAGCTGGCAGTGTGGCACACACCTTTAATCCAGCAGCTTGGGAGGC 488
QY 4634 AGAGCAGGCAGATTCTGAGTTCAGGCCAGCCTGGTCTATAGAGTGAGTTCAGGACA 4693
Db 489 AGAGGCAGCGGATTCTGAGTTCAGGCCAGCCTGGTCTACAGAGTGAGTTCAGGACA 548
QY 4694 GCCAGGCTACACAGAGAAACCTGTTTGAAAAACCCAGAAAAACAAACAAAAAC 4753
Db 549 GCCAGGCTACACAGAGAAACCTGTTGAAAAACCCAGAAAAACAAACAAAAAC 608
QY 4754 AAAA 4757
Db 609 AAAA 612

RESULT 2
US-09-313-932-107
/ Sequence 107, Application US/09313932A
/ Patent No. 6228642
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Brenda
/ APPLICANT: Bennett, C. Frank
/ APPLICANT: Butler, Madeline M.
/ APPLICANT: Shanahan, William R.
/ TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE MODULATION OF TNF-
/ FILE REFERENCE: ISPH-0356
/ CURRENT APPLICATION NUMBER: US/09/313,932A
/ CURRENT FILING DATE: 1999-05-18
/ NUMBER OF SEQ ID NOS: 501
/ SEQ ID NO 107
/ LENGTH: 7208
/ TYPE: DNA
/ ORGANISM: Mus musculus
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (4527..4712,5225..5279,5457..5504,5799..6217)
/ FEATURE:
/ NAME/KEY: exon
/ LOCATION: (4371)..(4712)
/ FEATURE:
/ NAME/KEY: intron
/ LOCATION: (4713)..(5224)
/ FEATURE:
/ NAME/KEY: exon
/ LOCATION: (5225)..(5279)
/ FEATURE:
/ NAME/KEY: intron
/ LOCATION: (5280)..(5456)
/ FEATURE:
/ NAME/KEY: exon
/ LOCATION: (5457)..(5504)
/ FEATURE:
/ NAME/KEY: intron
/ LOCATION: (5505)..(5798)
/ FEATURE:
/ NAME/KEY: exon
/ LOCATION: (5799)..(6972)

/ PUBLICATION INFORMATION:
/ AUTHORS: Semon, D.
/ AUTHORS: Kawashima, E.
/ AUTHORS: Jongeneel, C.V.
/ AUTHORS: Shakhov, A.N.
/ AUTHORS: Nedospasov, S.A.
/ TITLE: Nucleotide sequence of the murine TNF locus, including the
/ TITLE: TNF-alpha (tumor necrosis factor) and TNF-beta (lymphotoxin)
/ JOURNAL: Nucleic Acids Res.
/ VOLUME: 15
/ ISSUE: 21
/ PAGES: 9083-9084
/ DATE: 1987-11-11
/ DATABASE ACCESSION NUMBER: Y00467 Genbank
/ DATABASE ENTRY DATE: 1993-05-11
US-09-313-932-107

Query Match      1.7%; Score 148.8; DB 3; Length 7208;
Best Local Similarity 88.0%; Pred. No. 4.1e-29;
Matches 162; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 4574 AGAAAAAATGAAGCCAGCAGTGTGGCACACGCTTTATCCAGCAGCTTGGGAGGC 4633
Db 429 AAAAAAAAAAAGCTGGCAGTGTGGCACACACCTTTAATCCAGCAGCTTGGGAGGC 488
QY 4634 AGAGCAGGCAGATTCTGAGTTCAGGCCAGCCTGGTCTATAGAGTGAGTTCAGGACA 4693
Db 489 AGAGGCAGCGGATTCTGAGTTCAGGCCAGCCTGGTCTACAGAGTGAGTTCAGGACA 548
QY 4694 GCCAGGCTACACAGAGAAACCTGTTTGAAAAACCCAGAAAAACAAACAAAAAC 4753
Db 549 GCCAGGCTACACAGAGAAACCTGTTGAAAAACCCAGAAAAACAAACAAAAAC 608
QY 4754 AAAA 4757
Db 609 AAAA 612

RESULT 3
US-09-312-762A-3
/ Sequence 3, Application US/09312762A
/ Patent No. 6552177
/ GENERAL INFORMATION:
/ APPLICANT: MIA HOROWITZ ET AL.
/ TITLE OF INVENTION: EH DOMAIN CONTAINING GENES AND PROTEINS
/ NUMBER OF SEQUENCES: 27
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
/ CITY: Arlington
/ STATE: Virginia
/ COUNTRY: United States of America
/ ZIP: 22202
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
/ COMPUTER: Twinhead* Slimnote-890TX
/ OPERATING SYSTEM: MS DOS version 6.2,
/ OPERATING SYSTEM: Windows version 3.11
/ SOFTWARE: Word for Windows version 2.0 converted to
/ SOFTWARE: an ASCII file
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/312,762A
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 09/026,898
/ FILING DATE: 20 FEB 1998
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Friedman, Mark M.
/ REGISTRATION NUMBER: 33,883
/ REFERENCE/DOCKET NUMBER: 916/10
/ TELECOMMUNICATION INFORMATION:
```



```
; TELEPHONE: 972-3-5625553
; TELEFAX: 972-3-5625554
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14707
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
US-09-312-762A-3

Query Match 1.6%; Score 142.6; DB 4; Length 14707;
Best Local Similarity 75.1%; Pred. No. 3.2e-27;
Matches 178; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

Qy 4576 AAAAAATGAAGCCAGCAGCTGGTGGCACACGCTTTAATCCAGCAGCTTTGGGAGGCGAG 4635
Db 12047 AAGAAGTTAAGGGGGCGGTGATGGCACACGCTTTAATCCAGCAGCTTTGGGAGGCGAG 12106

Qy 4636 AAGCAGGCGAGATTTCTGAGTTCAAGGCCAGCCTGCTCTATAGAGTGAGTTCCAGGACAGC 4695
Db 12107 AGCGGGCGGATTTCTGAGTTCCGAGGCCAGCCTGCTCTACAAAGTGAGTTCCAGGACAGC 12166

Qy 4696 CAGGCTACACAGAGAAACCTGTTTGAAGAACCCAGAAACCAAAACCAAAACCAAAACAA 4755
Db 12167 CAGGCTACACAGAGAAACCTGTTTGAAGAACCCAGAAACCAAAACCAAAACCAAAACAA 12226

Qy 4756 AACAAACCCAAACCCAAACCCAAACCTCTCATCTCTCATCTCTAGCTGTGCT 4812
Db 12227 GTTTGAGAGCAAGTGAAGGCCCTCCCTTCTGCTGCCCTCGGACTCAGGTTTGGGTTT 12283

RESULT 4
US-08-965-729A-1/c
; Sequence 1, Application US/08965729A
; Patent No. 6200751
; GENERAL INFORMATION:
; APPLICANT: Jian-Ming Gu and Charles T. Esmon
; TITLE OF INVENTION: ENDOTHELIAL SPECIFIC EXPRESSION
; TITLE OF INVENTION: REGULATED BY EPCR CONTROL ELEMENTS
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Patrea L. Pabst
; STREET: 2800 One Atlantic Center, 1201 West Peachtree Street
; CITY: Atlanta
; STATE: GA
; COUNTRY: USA
; ZIP: 30309-4530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/965.729A
; FILING DATE: 07-NOV-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/030,718
; FILING DATE: 08-NOV-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Pabst, Patrea L.
; REGISTRATION NUMBER: 31,284
; REFERENCE/DOCKET NUMBER: OMRF 164 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 404-873-8794
; TELEFAX: 404-873-8795
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3481 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: /note= "Nucleotides 2270 through 2840 are a
; OTHER INFORMATION: large endothelial specific element"; murine
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: /note= "Nucleotides 2990 through 3061 are a
; OTHER INFORMATION: serum response element"; murine
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: /note= "Nucleotides 3007 through 3014 are a
; OTHER INFORMATION: thrombin responsive element"; murine
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: /note= "Nucleotides 3130 through 3350 are an
; OTHER INFORMATION: endothelial specific element"; murine
US-08-965-729A-1

Query Match 1.6%; Score 140.4; DB 3; Length 3481;
Best Local Similarity 74.8%; Pred. No. 4.8e-27;
Matches 202; Conservative 0; Mismatches 66; Indels 2; Gaps 2;

Qy 4564 TTTGCTTTTAAAGAAAAATGAAAGCCAGCAGTGGTGGCACACGCTTTTAAATCCCAGCA 4623
Db 2563 TTCAACTTTTAAAAAATAAAAAAAGCGGCGTGGTGGCACACGCTTTTAAATCCCAGCA 2504

Qy 4624 CTTCGGAGGCGAAGCAGGCGAGATTTCTGAGTTCAAGGCCAGCCTGGTCTATAGAGTGAG 4683
Db 2503 CTTCGGAGGCGAAGCAGGCGAGATTTCTGAGTTTTCGAGTTTTCGAGGCCAGCTGGCTACAGAGTGAG 2444

Qy 4684 TTCCAGGACAGCCAGGCGCTACACAGAGAAACCCCTGTTTGAAGAACCCAGAA-AAAAACAAA 4742
Db 2443 -TCCAGGACAGCCAGGCGCTACACAGAGAAACCCCTGTTCTCAAAAAACCAAAAAACAA 2385

Qy 4743 CAAAAACAAACAAACAAACAAACCCAAACCCAAACCCAAACCCCTCTCATCTCTCTCTA 4802
Db 2384 AAAAAACAAACAAACAAACCCAAACCCAAACCCAAACCCAAACCCAAACCAATAAAAAACCA 2325

Qy 4803 GGCTGTGCTGCTAGGTGGTAGAGTTGG 4832
Db 2324 AACAGGTCTTACTACTATCCATATGAGTTGG 2295

RESULT 5
US-09-245-041-3
; Sequence 3, Application US/09245041
; Patent No. 6274339
; GENERAL INFORMATION:
; APPLICANT: Moore, K.
; APPLICANT: Nagle, D.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS AND TREATMENT
; TITLE OF INVENTION: OF BODY WEIGHT DISORDERS INCLUDING OBESITY
; FILE REFERENCE: 7853-136
; CURRENT APPLICATION NUMBER: US/09/245.041
; CURRENT FILING DATE: 1999-02-05
; EARLIER APPLICATION NUMBER: 60/093,630
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: 60/104,978
; EARLIER FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 131
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 17056
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-245-041-3

Query Match 1.5%; Score 138.2; DB 3; Length 17056;
Best Local Similarity 79.2%; Pred. No. 5.7e-26;
Matches 164; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
```



Db 5444 CAGCCAGGGCTATACAGAGAAACCTGCTTTGAAAAACCGAAAAATGAAAAAGAGAAGA 5385  
Qy 4752 ACAAAA 4757  
Db 5384 AGAAGA 5379

## RESULT 9

US-09-358-055B-4/c  
; Sequence 4, Application US/09358055B  
; Patent No. 6713277  
; GENERAL INFORMATION:  
; APPLICANT: Moore, K.  
; APPLICANT: Nagle, D.L.  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS AND  
; TITLE OF INVENTION: TREATMENT OF BODY WEIGHT DISORDERS INCLUDING  
; TITLE OF INVENTION: OBESITY  
; FILE REFERENCE: 7853-151  
; CURRENT APPLICATION NUMBER: US/09/358,055B  
; CURRENT FILING DATE: 1999-07-21  
; PRIOR APPLICATION NUMBER: 09/245,041  
; PRIOR FILING DATE: 1999-02-05  
; NUMBER OF SEQ ID NOS: 153  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 4  
; LENGTH: 5973  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-358-055B-4

Query Match 1.5%; Score 138; DB 4; Length 5973;  
Best Local Similarity 83.9%; Pred. No. 3.1e-26;  
Matches 156; Conservative 0; Mismatches 30; Indels 0; Gaps 0;  
Qy 4572 TAAGAAAAATGAAAGCCAGCAGTGTGGCAGACGCTTTAATCCAGCACTTTGGAG 4631  
Db 5564 TAAGAAAAATCTTTAGGCTGGTGTGGTGGCAGACACCTTTAATCCAGCACTTTGGAG 5505  
Qy 4632 GCAGAGCAGCAGATTTCTGAGTTCAAGGCCAGCCTGGTCTATAGAGTGGTCCAGGA 4691  
Db 5504 GCAGAGCAGCAGATTTCTGAGTTCAAGGCCAGCCTGGTCTATAGAGTGGTCCAGGA 5445  
Qy 4692 CAGCAGGGCTACACAGAGAAACCTGTTTGA AAAACCGAAAAATGAAAAAGAGAAGA 4751  
Db 5444 CAGCCAGGGCTATACAGAGAAACCTGCTTTGAAAAACCGAAAAATGAAAAAGAGAAGA 5385  
Qy 4752 ACAAAA 4757  
Db 5384 AGAAGA 5379

## RESULT 10

US-09-893-238-4/c  
; Sequence 4, Application US/09893238  
; Patent No. 6727348  
; GENERAL INFORMATION:  
; APPLICANT: Moore, K.  
; APPLICANT: Nagle, D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TREATMENT AND  
; TITLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY  
; FILE REFERENCE: 7853-237  
; CURRENT APPLICATION NUMBER: US/09/893,238  
; CURRENT FILING DATE: 2001-05-27  
; PRIOR APPLICATION NUMBER: 09/245,041  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/093,630  
; PRIOR FILING DATE: 1998-07-21  
; PRIOR APPLICATION NUMBER: 60/104,978  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 129  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 4

; LENGTH: 5973  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-893-238-4

Query Match 1.5%; Score 138; DB 4; Length 5973;  
Best Local Similarity 83.9%; Pred. No. 3.1e-26;  
Matches 156; Conservative 0; Mismatches 30; Indels 0; Gaps 0;  
Qy 4572 TAAGAAAAATGAAAGCCAGCAGTGTGGCAGACGCTTTAATCCAGCACTTTGGAG 4631  
Db 5564 TAAGAAAAATCTTTAGGCTGGTGTGGTGGCAGACACCTTTAATCCAGCACTTTGGAG 5505  
Qy 4632 GCAGAGCAGCAGATTTCTGAGTTCAAGGCCAGCCTGGTCTATAGAGTGGTCCAGGA 4691  
Db 5504 GCAGAGCAGCAGATTTCTGAGTTCAAGGCCAGCCTGGTCTATAGAGTGGTCCAGGA 5445  
Qy 4692 CAGCAGGGCTACACAGAGAAACCTGTTTGA AAAACCGAAAAATGAAAAAGAGAAGA 4751  
Db 5444 CAGCCAGGGCTATACAGAGAAACCTGCTTTGAAAAACCGAAAAATGAAAAAGAGAAGA 5385  
Qy 4752 ACAAAA 4757  
Db 5384 AGAAGA 5379

## RESULT 11

US-09-319-284-1/c  
; Sequence 1, Application US/09319284A  
; Patent No. 6524815  
; GENERAL INFORMATION:  
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE-CEA  
; APPLICANT: HUBER, Philippe  
; APPLICANT: LAURENT, Monique  
; APPLICANT: GORY, Sylvie  
; TITLE OF INVENTION: VE CADHERIN PROMOTER AND ITS USES  
; FILE REFERENCE: 45636-5020-US  
; CURRENT APPLICATION NUMBER: US/09/319,284A  
; CURRENT FILING DATE: 1999-08-27  
; EARLIER APPLICATION NUMBER: PCT/FR97/02178  
; EARLIER FILING DATE: 1997-12-02  
; EARLIER APPLICATION NUMBER: FR 9614801  
; EARLIER FILING DATE: 1996-12-03  
; NUMBER OF SEQ ID NOS: 3  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 2509  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-319-284-1

Query Match 1.5%; Score 136.8; DB 4; Length 2509;  
Best Local Similarity 87.2%; Pred. No. 3.6e-26;  
Matches 150; Conservative 0; Mismatches 22; Indels 0; Gaps 0;  
Qy 4590 CCAGCAGTGTGGCAGACAGCCTTTAATCCAGCACTTTGGAGGAGCAGAGCAGGATTT 4649  
Db 1657 CCAGGCGTGTGGCGCAGCCTTTAATCCAGCACTCGGAGGAGCAGAGCAGGATTT 1598  
Qy 4650 CTGAGTTCAAGGCGCAGCCTGGTCTATAGAGTGGTCCAGGACAGCCAGGCTTACAGA 4709  
Db 1597 CTGAGTTCCAGGCGCAGCCTGGTCTATACAGAGTGTCTCCAGGATAGCCAGGCTATACA 1538  
Qy 4710 GAACCCCTGTTTGA AAAACCGAAAAATGAAAAAGAGAAGAAGAAGAAGA 4761  
Db 1537 GAACCCCTGTTCTGAAAAACCGAAAAATGAAAAAGAGAAGAAGAAGAAGA 1486

## RESULT 12

US-09-245-041-5  
; Sequence 5, Application US/09245041  
; Patent No. 6274339  
; GENERAL INFORMATION:





**THIS PAGE BLANK (USPTO)**

**THIS PAGE BLANK (USPTO)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 18, 2005, 08:22:27 ; Search time 5397 Seconds  
(without alignments)  
11685.034 Million cell updates/sec

Title: US-09-877-935-1

Perfect score: 8995

Sequence: 1 gatctggtcaccaaggaca.....ctctaggtcgtccaccatg 8995

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 8766186 seqs, 3505510206 residues

Total number of hits satisfying chosen parameters: 17532372

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

- 1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq.\*
- 2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq.\*
- 3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq.\*
- 4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq.\*
- 5: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq.\*
- 6: /cgn2\_6/ptodata/1/pubpna/PCTUS\_PUBCOMB.seq.\*
- 7: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq.\*
- 8: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq.\*
- 9: /cgn2\_6/ptodata/1/pubpna/US09A\_PUBCOMB.seq.\*
- 10: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq.\*
- 12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq.\*
- 13: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq.\*
- 14: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq.\*
- 15: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq.\*
- 16: /cgn2\_6/ptodata/1/pubpna/US10D\_PUBCOMB.seq.\*
- 17: /cgn2\_6/ptodata/1/pubpna/US10E\_PUBCOMB.seq.\*
- 18: /cgn2\_6/ptodata/1/pubpna/US10F\_PUBCOMB.seq.\*
- 19: /cgn2\_6/ptodata/1/pubpna/US10G\_PUBCOMB.seq.\*
- 20: /cgn2\_6/ptodata/1/pubpna/US10H\_PUBCOMB.seq.\*
- 21: /cgn2\_6/ptodata/1/pubpna/US10I\_PUBCOMB.seq.\*
- 22: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq.\*
- 23: /cgn2\_6/ptodata/1/pubpna/US11A\_PUBCOMB.seq.\*
- 24: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq.\*
- 25: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*
- 26: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	8995	100.0	8995	9	US-09-877-935-1
2	170.4	1.9	493631	13	US-10-087-192-205
3	166.6	1.9	63502	13	US-10-087-192-271
4	165	1.8	33488	17	US-10-085-117-235
5	164	1.8	31632	17	US-10-034-650-1
6	161.4	1.8	21781	19	US-10-322-696-25
7	161.4	1.8	54648	17	US-10-085-117-289

C	8	161	1.8	111836	19	US-10-322-281-51	Sequence 51, Appl
	9	158.8	1.8	27383	19	US-10-322-696-133	Sequence 133, Appl
	10	158	1.8	26345	13	US-10-087-192-1705	Sequence 1705, Appl
C	11	157.6	1.8	193853	13	US-10-087-192-1663	Sequence 1663, Appl
C	12	156.2	1.7	93329	19	US-10-322-281-817	Sequence 817, Appl
C	13	156	1.7	24495	19	US-10-367-094-142	Sequence 142, Appl
C	14	155.6	1.7	31400	13	US-10-087-192-907	Sequence 907, Appl
C	15	155	1.7	94381	11	US-09-997-722-31	Sequence 31, Appl
C	16	154.6	1.7	154504	19	US-10-322-696-67	Sequence 67, Appl
C	17	154.4	1.7	29222	17	US-10-085-117-349	Sequence 349, Appl
C	18	153.4	1.7	96389	18	US-10-052-482-181	Sequence 181, Appl
C	19	153	1.7	72821	21	US-10-461-862-149	Sequence 149, Appl
C	20	152.8	1.7	247461	19	US-10-322-281-131	Sequence 131, Appl
C	21	152.4	1.7	197775	13	US-10-087-192-853	Sequence 853, Appl
C	22	152.2	1.7	170279	19	US-10-388-838-1	Sequence 1, Appl
C	23	152.2	1.7	215980	10	US-09-972-546-16	Sequence 16, Appl
C	24	152.2	1.7	215980	21	US-10-735-256-16	Sequence 16, Appl
C	25	151.2	1.7	122859	13	US-10-087-192-37	Sequence 37, Appl
C	26	151	1.7	46677	13	US-10-087-192-943	Sequence 943, Appl
C	27	151	1.7	116585	13	US-10-087-192-133	Sequence 133, Appl
C	28	150.6	1.7	1445	17	US-10-461-093-17	Sequence 17, Appl
C	29	150.4	1.7	53828	19	US-10-322-281-369	Sequence 369, Appl
C	30	150	1.7	34200	13	US-10-087-192-1507	Sequence 1507, Appl
C	31	150	1.7	49914	19	US-10-322-281-299	Sequence 299, Appl
C	32	150	1.7	53158	13	US-10-087-192-1963	Sequence 1963, Appl
C	33	149.8	1.7	23861	17	US-10-085-117-301	Sequence 301, Appl
C	34	149.8	1.7	49088	13	US-10-087-192-13	Sequence 13, Appl
C	35	149.8	1.7	61791	19	US-10-322-281-645	Sequence 645, Appl
C	36	149.8	1.7	263852	20	US-10-812-232-6	Sequence 6, Appl
C	37	149.6	1.7	224112	19	US-10-367-094-80	Sequence 80, Appl
C	38	149.2	1.7	820	20	US-10-425-115-182345	Sequence 182345,
C	39	149.2	1.7	33468	11	US-09-997-722-283	Sequence 283, Appl
C	40	149	1.7	29956	11	US-09-997-722-229	Sequence 229, Appl
C	41	149	1.7	44990	18	US-10-052-482-217	Sequence 217, Appl
C	42	149	1.7	83888	13	US-10-087-192-541	Sequence 541, Appl
C	43	149	1.7	84252	19	US-10-322-281-563	Sequence 563, Appl
C	44	149	1.7	158405	14	US-10-175-523-86	Sequence 86, Appl
C	45	149	1.7	158405	24	US-11-099-266-86	Sequence 86, Appl

ALIGNMENTS

RESULT 1  
US-09-877-935-1  
; Sequence 1, Application US/09877935  
; Patent No. US20020102705A1  
; GENERAL INFORMATION:  
; APPLICANT: Pinto, Daniel  
; APPLICANT: Robine, Sylvie  
; APPLICANT: Jaisser, Frederic  
; APPLICANT: Louvard, Daniel  
; TITLE OF INVENTION: REGULATORY SEQUENCES OF THE MOUSE VILLIN GENE - USE IN TRANSGENES  
; FILE REFERENCE: 13294-002001  
; CURRENT APPLICATION NUMBER: US/09/877,935  
; CURRENT FILING DATE: 2001-06-08  
; PRIOR APPLICATION NUMBER: PCT/EP 98/08009  
; PRIOR FILING DATE: 1998-12-09  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 8995  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: intron  
; LOCATION: (3489)..(8981)  
; NAME/KEY: exon  
; LOCATION: (3443)..(3487)  
; OTHER INFORMATION: exon 1  
US-09-877-935-1

Query Match 100.0%; Score 8995; DB 9; Length 8995;

Best Local Similarity 100.0%; Pred. No. 0;			
Matches 8995; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	1	GATCTGGTGCACCAAGGACACTGTGGTCCAGACACTGGGGAGGTGGAGGGAGGGTCA	60
Db	1	GATCTGGTGCACCAAGGACACTGTGGTCCAGACACTGGGGAGGTGGAGGGAGGGTCA	60
QY	61	GAAGTTTAAAGGTATCTCTTGGTTACATAGCAAGGTTTCAGCCAGCTTCAGCTACATGAAA	120
Db	61	GAAGTTTAAAGGTATCTCTTGGTTACATAGCAAGGTTTCAGCCAGCTTCAGCTACATGAAA	120
QY	121	CCCTTCTGTTTGTGTTTGTGTTTAAAGCAATTAATAAATACCAATAAGGAGGTGG	180
Db	121	CCCTTCTGTTTGTGTTTGTGTTTAAAGCAATTAATAAATACCAATAAGGAGGTGG	180
QY	181	CAGTGGTGGCAGACACCTTTAATCCAGTATTCAGGAGGCGAGGAGGAGGAGTCTCTGT	240
Db	181	CAGTGGTGGCAGACACCTTTAATCCAGTATTCAGGAGGCGAGGAGGAGGAGTCTCTGT	240
QY	241	GAGTTGGAAGTCAGCTAGTCTGCAAGCTAGTTCAGGATGGCAAGGGCTACACAGAGA	300
Db	241	GAGTTGGAAGTCAGCTAGTCTGCAAGCTAGTTCAGGATGGCAAGGGCTACACAGAGA	300
QY	301	AACTTGTCTCATAAACCAAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAG	360
Db	301	AACTTGTCTCATAAACCAAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAG	360
QY	361	GTCCATTCCAGGATGAGGACCTCTAATAGATGATTTCTTTGACCCAGGTAAGCTAATGTCA	420
Db	361	GTCCATTCCAGGATGAGGACCTCTAATAGATGATTTCTTTGACCCAGGTAAGCTAATGTCA	420
QY	421	TGGGAAAGGGATGGGACTGTCTCTAGATTTAAAGTCTGAGCGATGCTATTTCTCAA	480
Db	421	TGGGAAAGGGATGGGACTGTCTCTAGATTTAAAGTCTGAGCGATGCTATTTCTCAA	480
QY	481	TTTGATTCATATGAAGGCTGATAAGGCCCAAGAGAGAGTGGAACTTGGAACTCTGGACT	540
Db	481	TTTGATTCATATGAAGGCTGATAAGGCCCAAGAGAGAGTGGAACTTGGAACTCTGGACT	540
QY	541	GAAGACGTGACGGCTTATAAACACTGGCACTTATAAACACTTATAAACACTGGCACAGG	600
Db	541	GAAGACGTGACGGCTTATAAACACTGGCACTTATAAACACTTATAAACACTGGCACAGG	600
QY	601	CGTTTCAGTTTGAAGATCACTTTCAAACCAAGAGAGTGTCTCGCTCGTCTCAGC	660
Db	601	CGTTTCAGTTTGAAGATCACTTTCAAACCAAGAGAGTGTCTCGCTCGTCTCAGC	660
QY	661	GTAGCGACCTGGCTGCAGAGAGTGATATTTAGTGAAGGCTACCTTCAATATCTTT	720
Db	661	GTAGCGACCTGGCTGCAGAGAGTGATATTTAGTGAAGGCTACCTTCAATATCTTT	720
QY	721	GCACTTATCATACACGTGTCAAATGTCTTAACCTTATAAACACTTATAAACACTGGCTGTACA	780
Db	721	GCACTTATCATACACGTGTCAAATGTCTTAACCTTATAAACACTTATAAACACTGGCTGTACA	780
QY	781	CTCGTTTCTGTTTCCCATCTGGTTGACATTTGTCAGAACCAAGAAATTTAGAAATTTGGGT	840
Db	781	CTCGTTTCTGTTTCCCATCTGGTTGACATTTGTCAGAACCAAGAAATTTAGAAATTTGGGT	840
QY	841	ATTTATTTGTGTGTGAGGACACCATCCAGGCTTTTTCATTTTCAGGACATGGTTTAC	900
Db	841	ATTTATTTGTGTGTGAGGACACCATCCAGGCTTTTTCATTTTCAGGACATGGTTTAC	900
QY	901	TAACTGGGCTACTTCTCCAAAGGTTTGAACCAATTTGTTTATTTATTTATTTTGTGT	960
Db	901	TAACTGGGCTACTTCTCCAAAGGTTTGAACCAATTTGTTTATTTATTTATTTTGTGT	960
QY	961	GCATGAGGTAGGATGATACGTATGTATAGGAGTCAATGATGCTGCTACCTCAAA	1020
Db	961	GCATGAGGTAGGATGATACGTATGTATAGGAGTCAATGATGCTGCTACCTCAAA	1020
QY	1021	ATCATTCAGATCCCCAGCAAGTGAAGTCAACCGAGGTTGTAAGTTGTTATGTGGGACTG	1080
Db	1021	ATCATTCAGATCCCCAGCAAGTGAAGTCAACCGAGGTTGTAAGTTGTTATGTGGGACTG	1080

Db	1021	ATCATTCAGATCCCCAGCAAGTGAAGTCAACCGAGGTTGTAAGTTGTTATGTGGGACTG	1080
QY	1081	GGAGCCAAGGCTGGGTTCTCTGCAAGAGCAGCCAGTGGGCTTAAACCATGGGACAGCTCT	1140
Db	1081	GGAGCCAAGGCTGGGTTCTCTGCAAGAGCAGCCAGTGGGCTTAAACCATGGGACAGCTCT	1140
QY	1141	CTAGGCTTAAGGTAATCTTTAGTTTTTAAAAATATATATTCCTCAGCCGGGTGTGGTGC	1200
Db	1141	CTAGGCTTAAGGTAATCTTTAGTTTTTAAAAATATATATTCCTCAGCCGGGTGTGGTGC	1200
QY	1201	ACAGGCTTTAATCCAGCACTTGAGAGGCTGAGGTGTAGGAATATATACACACAGCCAG	1260
Db	1201	ACAGGCTTTAATCCAGCACTTGAGAGGCTGAGGTGTAGGAATATATACACACAGCCAG	1260
QY	1261	CTGGGTGAGAGCTTTGGCCCTGTTTTTTTTTTTTTTTCTTTATGTGCACTGGTGTCTTA	1320
Db	1261	CTGGGTGAGAGCTTTGGCCCTGTTTTTTTTTTTTTTTCTTTATGTGCACTGGTGTCTTA	1320
QY	1321	CCTGCGTATATGTCGTCGAAGGCTGAGATCCCTTGGAGCTGGAGTTAAAGACAGTTG	1380
Db	1321	CCTGCGTATATGTCGTCGAAGGCTGAGATCCCTTGGAGCTGGAGTTAAAGACAGTTG	1380
QY	1381	TGATCACGCTGCCGTTTACAGATGCTGGAATTTGAACCCAGGTTGCCCTAGAGAAGCAGCC	1440
Db	1381	TGATCACGCTGCCGTTTACAGATGCTGGAATTTGAACCCAGGTTGCCCTAGAGAAGCAGCC	1440
QY	1441	AGTGTCTTTAACTTCTGAGCCACCCCTCOAACCCCTGTTTTAGAGACTTTAACTTTTG	1500
Db	1441	AGTGTCTTTAACTTCTGAGCCACCCCTCOAACCCCTGTTTTAGAGACTTTAACTTTTG	1500
QY	1501	TGTAATGTGGGAACTGAGTGGATCTTGCACTTTACCAAGTGTGTGGCTGTAGCATCA	1560
Db	1501	TGTAATGTGGGAACTGAGTGGATCTTGCACTTTACCAAGTGTGTGGCTGTAGCATCA	1560
QY	1561	CTGAGCCGTTACCCACACGACTAGTGGATACAGTTTAAAGGCAAAACACTTAAACAATGACA	1620
Db	1561	CTGAGCCGTTACCCACACGACTAGTGGATACAGTTTAAAGGCAAAACACTTAAACAATGACA	1620
QY	1621	ATAGTTGGATAGGTTTGAATATAGTCTGAGCTATTTGGTTAGCGTGACCTTTGCTGTCC	1680
Db	1621	ATAGTTGGATAGGTTTGAATATAGTCTGAGCTATTTGGTTAGCGTGACCTTTGCTGTCC	1680
QY	1681	TTAGCATGTCTGTGAGAGATAGAAAAATGAAGACTTTGAGTCTAGTCTGTAACCCACA	1740
Db	1681	TTAGCATGTCTGTGAGAGATAGAAAAATGAAGACTTTGAGTCTAGTCTGTAACCCACA	1740
QY	1741	GAGGACGCGAGAACCCCACTCTCTGAAAGTGTCTCTGAGCTTCAATACAACTTCAAT	1800
Db	1741	GAGGACGCGAGAACCCCACTCTCTGAAAGTGTCTCTGAGCTTCAATACAACTTCAAT	1800
QY	1801	AATAGTTCAATGATAAATAAATAGTAAATTTCTTTTAAAGGTATATGTTGGAGGGA	1860
Db	1801	AATAGTTCAATGATAAATAAATAGTAAATTTCTTTTAAAGGTATATGTTGGAGGGA	1860
QY	1861	GAGATGGCTCAGCTTCCAGGAGCACTTCTGCTCTCTGAGAGGACCTAGATTCACTTCCC	1920
Db	1861	GAGATGGCTCAGCTTCCAGGAGCACTTCTGCTCTCTGAGAGGACCTAGATTCACTTCCC	1920
QY	1921	AGGACTCATATGTTGGCTCAGGCACTGTGAAATTCAGTTTCCAGAGGTTTCCACACCT	1980
Db	1921	AGGACTCATATGTTGGCTCAGGCACTGTGAAATTCAGTTTCCAGAGGTTTCCACACCT	1980
QY	1981	CTTCTGGCTCCACAGGCAACACATACATAGTACACAGACATACATGCAGGCAAAACACC	2040
Db	1981	CTTCTGGCTCCACAGGCAACACATACATAGTACACAGACATACATGCAGGCAAAACACC	2040
QY	2041	CATACACATATAAATAAGGAACTTAAAGGTGCACTGTTGTTGTTAAACATTTGTGCT	2100
Db	2041	CATACACATATAAATAAGGAACTTAAAGGTGCACTGTTGTTGTTAAACATTTGTGCT	2100
QY	2101	TACACATGCTGATTGAAGACATGTACAAACGACACATCTGAAGAGGATCTGGGGCTGGAG	2160
Db	2101	TACACATGCTGATTGAAGACATGTACAAACGACACATCTGAAGAGGATCTGGGGCTGGAG	2160



Qy	2161	AGATGGCTCAGCGTTAAGAGCACTGACTGCTCTTCCGAGGAAAGGTCTCTCAGTTCAAAAT	2220
Db	2161	AGATGGCTCAGCGTTAAGAGCACTGACTGCTCTTCCGAGGAAAGGTCTCTCAGTTCAAAAT	2220
Qy	2221	CCTAGCAACCATGGTGGCTCACAACCATCCATAATAGATCTGACACCCCTCTCTGGT	2280
Db	2221	CCTAGCAACCATGGTGGCTCACAACCATCCATAATAGATCTGACACCCCTCTCTGGT	2280
Qy	2281	GCATCTGAAGACAGCTGCAGAGCTACAGTGTACTTAGATATACTAAATAAATCTTTT	2340
Db	2281	GCATCTGAAGACAGCTGCAGAGCTACAGTGTACTTAGATATACTAAATAAATCTTTT	2340
Qy	2341	TTTAAAAAATGAAGAGGATCTGAGACACCTCAAAAGAGATTTATGACAGTGACTCAG	2400
Db	2341	TTTAAAAAATGAAGAGGATCTGAGACACCTCAAAAGAGATTTATGACAGTGACTCAG	2400
Qy	2401	GGTGATTATCTATCCTGGAGTTTTTCTTTCCTTCCGCTTGGCTTGGCACTGGGTGGACAGC	2460
Db	2401	GGTGATTATCTATCCTGGAGTTTTTCTTTCCTTCCGCTTGGCTTGGCACTGGGTGGACAGC	2460
Qy	2461	CCCCCTTTTCATTCACAAAGCGGTGCTACATTTATTTCTGAACAAAACAGCACCTGCAGT	2520
Db	2461	CCCCCTTTTCATTCACAAAGCGGTGCTACATTTATTTCTGAACAAAACAGCACCTGCAGT	2520
Qy	2521	ATGTTTACTGCTCTTGTGACTATGAGCAGCGGCAACCGCGCGGCGCACACACACAC	2580
Db	2521	ATGTTTACTGCTCTTGTGACTATGAGCAGCGGCAACCGCGCGGCGCACACACACAC	2580
Qy	2581	ACACACACACACACACACACACACATTCAGTCTCCAGAGCTCTTGGGAAGTCA	2640
Db	2581	ACACACACACACACACACACACACATTCAGTCTCCAGAGCTCTTGGGAAGTCA	2640
Qy	2641	AGAGAGGCTGCCCTCAAAACAGATCTTTCATCTTTCCCTCTTAAAGGAGACCAAGATTCC	2700
Db	2641	AGAGAGGCTGCCCTCAAAACAGATCTTTCATCTTTCCCTCTTAAAGGAGACCAAGATTCC	2700
Qy	2701	AAGTGGCAGAAGATCTACAGGGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	2760
Db	2701	AAGTGGCAGAAGATCTACAGGGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	2760
Qy	2761	AGAGACCTACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	2820
Db	2761	AGAGACCTACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	2820
Qy	2821	CCCTTGTTCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	2880
Db	2821	CCCTTGTTCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	2880
Qy	2881	GCTCATAAAGTGGAGTCTGGGCTCACTCAGAAAGGAGGAGGAGGAGGAGGAGGAGGAGG	2940
Db	2881	GCTCATAAAGTGGAGTCTGGGCTCACTCAGAAAGGAGGAGGAGGAGGAGGAGGAGGAGG	2940
Qy	2941	CCCCACTGAGGAGGAGTCTGCTAGTAGGAGAGATCTGAGGAGGAGGAGGAGGAGGAGG	3000
Db	2941	CCCCACTGAGGAGGAGTCTGCTAGTAGGAGAGATCTGAGGAGGAGGAGGAGGAGGAGG	3000
Qy	3001	CTGTCTGTCCCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	3060
Db	3001	CTGTCTGTCCCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	3060
Qy	3061	CAAGACCCAGGAGTCTTACTCCATCCAGTGCCTCCCTCCCTCCCTCCCTCCCTCCCTCC	3120
Db	3061	CAAGACCCAGGAGTCTTACTCCATCCAGTGCCTCCCTCCCTCCCTCCCTCCCTCCCTCC	3120
Qy	3121	CCCCGACTCCGTCGCACTTCTCTAGGCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	3180
Db	3121	CCCCGACTCCGTCGCACTTCTCTAGGCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	3180
Qy	3181	CTACTGAGGTAGAGCCAGGCTCTAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	3240
Db	3181	CTACTGAGGTAGAGCCAGGCTCTAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	3240

Qy	3241	GCCAAAGGCGGGGACACAGGAGCTCAGGCTGTGTCAGGCTGTGTCGGCTCTAGGTTCCC	3300
Db	3241	GCCAAAGGCGGGGACACAGGAGCTCAGGCTGTGTCAGGCTGTGTCGGCTCTAGGTTCCC	3300
Qy	3301	AGGACCTGGGACCTACTTCCACCCACCCCATTCCTCTCTCTGGGGCCCTATCTTCC	3360
Db	3301	AGGACCTGGGACCTACTTCCACCCACCCCATTCCTCTCTCTGGGGCCCTATCTTCC	3360
Qy	3361	CTTATATGGTGAAGAAAGTTCTCTGGGGGGGGGGTGGTGGTGAAGCAAAAGGTCGTCG	3420
Db	3361	CTTATATGGTGAAGAAAGTTCTCTGGGGGGGGGGTGGTGGTGAAGCAAAAGGTCGTCG	3420
Qy	3421	GTCTCTGCAGCAGCTTCCACAACTTCTTAAAGTCTCCAGGTGGTGGCTCTCTCTTC	3480
Db	3421	GTCTCTGCAGCAGCTTCCACAACTTCTTAAAGTCTCCAGGTGGTGGCTCTCTCTTC	3480
Qy	3481	CAGACAGTAAAGCAATTTGGTGGGGACACATGGTGAACACAGGTGGTGGAGGGACAG	3540
Db	3481	CAGACAGTAAAGCAATTTGGTGGGGACACATGGTGAACACAGGTGGTGGAGGGACAG	3540
Qy	3541	GGTCTCTTCTCTCTGGCAGCCTGTCTTCTGTAGCACCTTGGTATAAGTTTGGGG	3600
Db	3541	GGTCTCTTCTCTCTGGCAGCCTGTCTTCTGTAGCACCTTGGTATAAGTTTGGGG	3600
Qy	3601	TGAGTAAAGTGTCTGAACTCTGAAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG	3660
Db	3601	TGAGTAAAGTGTCTGAACTCTGAAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG	3660
Qy	3661	TCAATGAAGCAAGTTCACAGACCCCTTCTCTGTAAGTCACTTCTGCTGCTCACTCTGTAG	3720
Db	3661	TCAATGAAGCAAGTTCACAGACCCCTTCTCTGTAAGTCACTTCTGCTGCTCACTCTGTAG	3720
Qy	3721	ATTCCCTGGGACCAAGGTGGCTCTGGGACTCAGATTCTACAATTAATAATCAGGACAGT	3780
Db	3721	ATTCCCTGGGACCAAGGTGGCTCTGGGACTCAGATTCTACAATTAATAATCAGGACAGT	3780
Qy	3781	CCTGAGACTTGGACTCCGTGCTGTATTTACTTCTCTCTGCTGCTCACTTCTGTGT	3840
Db	3781	CCTGAGACTTGGACTCCGTGCTGTATTTACTTCTCTCTGCTGCTCACTTCTGTGT	3840
Qy	3841	TCATGCTTACACATCTGAAATGGTTCTTCTGTCACCATTTCCCTGACACTCTCTGGGA	3900
Db	3841	TCATGCTTACACATCTGAAATGGTTCTTCTGTCACCATTTCCCTGACACTCTCTGGGA	3900
Qy	3901	GGTCTATCTCTTGGCAGATGTATCTCTGGGATGTAAAGCTGCAGCCACAGGAGAGGGGG	3960
Db	3901	GGTCTATCTCTTGGCAGATGTATCTCTGGGATGTAAAGCTGCAGCCACAGGAGAGGGGG	3960
Qy	3961	AGAGTCAAGGAGTGTCTTAGGCTTATAGGCTTGGACATCACTCTTCTCTAGAAAT	4020
Db	3961	AGAGTCAAGGAGTGTCTTAGGCTTATAGGCTTGGACATCACTCTTCTCTAGAAAT	4020
Qy	4021	GGCCCTTCCATTTTCCGTTACCATGATCTATTTTATATACAGTGGGAGTGAAGGCA	4080
Db	4021	GGCCCTTCCATTTTCCGTTACCATGATCTATTTTATATACAGTGGGAGTGAAGGCA	4080
Qy	4081	AACCTGCCCCAGAGTTTGGGACTCACTCAGACCAAGGTTATCTGCTCAGAAATCCCTCTG	4140
Db	4081	AACCTGCCCCAGAGTTTGGGACTCACTCAGACCAAGGTTATCTGCTCAGAAATCCCTCTG	4140
Qy	4141	TCACTTGAAGTGGAGAAATCTGCTCTGGGGGCTTCCAGGTCTTGGTGGAGGAGGT	4200
Db	4141	TCACTTGAAGTGGAGAAATCTGCTCTGGGGGCTTCCAGGTCTTGGTGGAGGAGGT	4200
Qy	4201	ATCCTTTGTATAGGCACTGACCTAGTCTATGGTGTACTACATCTCTCAGTTTAAAG	4260
Db	4201	ATCCTTTGTATAGGCACTGACCTAGTCTATGGTGTACTACATCTCTCAGTTTAAAG	4260
Qy	4261	CTGAACTTAAACCCACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	4320
Db	4261	CTGAACTTAAACCCACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	4320
Qy	4321	AGACAGTAGATATGCAAGGATAGGTAGTCTGGGGAGAGAGAACTTAAACCCCTTAAAG	4380

Db	4321	AGACAGTAGATATCAAGGATAGGTAGCTGGGAGAGAGAACTTAAACCCCCCCCAAG	4380
QY	4381	GCCACACAGGTTCCGTTCCCTTAGTTTCAATGCCAGTATGAGTGCCTAGCTACTATGGGCTG	4440
Db	4381	GCCACACAGGTTCCGTTCCCTTAGTTTCAATGCCAGTATGAGTGCCTAGCTACTATGGGCTG	4440
QY	4441	TGAGTTGGTAGCTACAAGCATGAGTGAATGTTCAATGTGTGTAGTGTATTAATCTGAGCAC	4500
Db	4441	TGAGTTGGTAGCTACAAGCATGAGTGAATGTTCAATGTGTGTAGTGTATTAATCTGAGCAC	4500
QY	4501	TTGGAGGCTCAAGCAGGAGGATTGCTATATGTTTGGGCCAGCCTGAGCTATAGACGA	4560
Db	4501	TTGGAGGCTCAAGCAGGAGGATTGCTATATGTTTGGGCCAGCCTGAGCTATAGACGA	4560
QY	4561	GACTTTGCTTTTAAAGAAAAATGAAGCCACGACGTGGTGCCACACGCCCTTTAATCCCA	4620
Db	4561	GACTTTGCTTTTAAAGAAAAATGAAGCCACGACGTGGTGCCACACGCCCTTTAATCCCA	4620
QY	4621	GCACTTGGGAGGCAGAGCAGGACAGATTCTGAGTTTCAAGCCAGCCTGCTCTATAGAGT	4680
Db	4621	GCACTTGGGAGGCAGAGCAGGACAGATTCTGAGTTTCAAGCCAGCCTGCTCTATAGAGT	4680
QY	4681	GAGTTCAGGACAGCCAGGGCTACACAGAGAAACCTGTTTGAAGAAACCCAGAAAACAA	4740
Db	4681	GAGTTCAGGACAGCCAGGGCTACACAGAGAAACCTGTTTGAAGAAACCCAGAAAACAA	4740
QY	4741	AACAAAACAAAACAAAACCCCAACCCCAACCCCAACCTCTCATCTCTCATCTCTC	4800
Db	4741	AACAAAACAAAACAAAACCCCAACCCCAACCCCAACCTCTCATCTCTCATCTCTC	4800
QY	4801	TAGGCTGTGCTGTCTAGTGTGTAGAGTTTGGGACTTTCAGACTTATATAATAATAGGCC	4860
Db	4801	TAGGCTGTGCTGTCTAGTGTGTAGAGTTTGGGACTTTCAGACTTATATAATAATAGGCC	4860
QY	4861	TTTTTATCACTCGTCAGACAGAGAAAGTTTCAGTCTGGGACACAGTGGGACCCCTGAGA	4920
Db	4861	TTTTTATCACTCGTCAGACAGAGAAAGTTTCAGTCTGGGACACAGTGGGACCCCTGAGA	4920
QY	4921	AAGTACTCTCTGCCAGCCCCAAAATTTCTGGGAAGCTTCTGGGAAGGTGTGTCCTGAT	4980
Db	4921	AAGTACTCTCTGCCAGCCCCAAAATTTCTGGGAAGCTTCTGGGAAGGTGTGTCCTGAT	4980
QY	4981	CAGACTACTGTTCTAGAAGGCAGAGAGAGGTTTGGAAAGATGTTGGTGGACAGACAGTT	5040
Db	4981	CAGACTACTGTTCTAGAAGGCAGAGAGAGGTTTGGAAAGATGTTGGTGGACAGACAGTT	5040
QY	5041	GGAAACAGAGGACAGAGGGGGAGGSCATCCAAGATCTGAAACATGTAGCTGACTTTTGGT	5100
Db	5041	GGAAACAGAGGACAGAGGGGGAGGSCATCCAAGATCTGAAACATGTAGCTGACTTTTGGT	5100
QY	5101	TCTCTGGGTGACAAGTGTCCCCCAGGATAGGCTGTAGAAAGGGACACAGGGGTGAGCC	5160
Db	5101	TCTCTGGGTGACAAGTGTCCCCCAGGATAGGCTGTAGAAAGGGACACAGGGGTGAGCC	5160
QY	5161	AATGAGTTCAAGTTTCAGGGACACATCCAGCCCCAGGTCCTTGTGCGCAAGCTTAAAGATG	5220
Db	5161	AATGAGTTCAAGTTTCAGGGACACATCCAGCCCCAGGTCCTTGTGCGCAAGCTTAAAGATG	5220
QY	5221	AGAGCCCTCTAACCCCTCCCTGAAGTTTAGGGGAGACAGGAGAGCTGAGGAGATCCCTCTA	5280
Db	5221	AGAGCCCTCTAACCCCTCCCTGAAGTTTAGGGGAGACAGGAGAGCTGAGGAGATCCCTCTA	5280
QY	5281	GGGTCAAGGAGAGGTATCTGCTCTGACCAACATGGCTAGGACAGAGAGCTTGGACCAAG	5340
Db	5281	GGGTCAAGGAGAGGTATCTGCTCTGACCAACATGGCTAGGACAGAGAGCTTGGACCAAG	5340
QY	5341	TTACCCCTCAGAACCCAGCCATCCCTCTTGGCTCTTAAGGAGGCTGGGCCCTTTCTGTTT	5400
Db	5341	TTACCCCTCAGAACCCAGCCATCCCTCTTGGCTCTTAAGGAGGCTGGGCCCTTTCTGTTT	5400
QY	5401	AAGAACTTACTTTTCTCAGAGAGGACAGAGCTTTGTCCCTCTCCCTGTTGGTCAA	5460
Db	5401	AAGAACTTACTTTTCTCAGAGAGGACAGAGCTTTGTCCCTCTCCCTGTTGGTCAA	5460

5401	DB	5401	AA	GAATCTTTACTTTTCTTCAGAGAGGCGAAGAGCCCTTTTGTGCCCTCCCTGTGGTCAA	5460
5461	QY	5461	TA	AACACCCCTGTGTGTAACTATTATTTACTGTCACTTTGCTCCAGGACAGTCCA	5520
5461	DB	5461	TA	AACACCCCTGTGTGTAACTATTATTTACTGTCACTTTGCTCCAGGACAGTCCA	5520
5521	QY	5521	TC	TGTPAGACCTCTCTCTAACTCAACAAGGTATGGCCACATTCCTCACCCCAAGAAG	5580
5521	DB	5521	TC	TGTPAGACCTCTCTCTAACTCAACAAGGTATGGCCACATTCCTCACCCCAAGAAG	5580
5581	QY	5581	TC	CAGAAGAGACCTTAGAGAAAGGTAAACAGTAAACAAGATGCCAGAAATAAAACAAA	5640
5581	DB	5581	TC	CAGAAGAGACCTTAGAGAAAGGTAAACAGTAAACAAGATGCCAGAAATAAAACAAA	5640
5641	QY	5641	AC	TACTATCTTTGTACCAAAATTTGTTTGTCTCAACACAGAGGGGTGTGAGTGTAT	5700
5641	DB	5641	AC	TACTATCTTTGTACCAAAATTTGTTTGTCTCAACACAGAGGGGTGTGAGTGTAT	5700
5701	QY	5701	GT	GT	5760
5701	DB	5701	GT	GT	5760
5761	QY	5761	CT	TGGGGACATTTTCATCTAAAGAAATCTGATATTGGCGCCCATGCCAACAGGGGTAT	5820
5761	DB	5761	CT	TGGGGACATTTTCATGCTAAAGAAATCTGATATTGGCGCCCATGCCAACAGGGGTAT	5820
5821	QY	5821	TGG	GAGAGTCAGGCTTCTGCAACACAGTAAGTCGCCAAGATGGATTGGTGGCCTGAA	5880
5821	DB	5821	TGG	GAGAGTCAGGCTTCTGCAACACAGTAAGTCGCCAAGATGGATTGGTGGCCTGAA	5880
5881	QY	5881	TC	ACCAAGGGGACGCTGATCAGATGCGACAGAACATCAACAATAGCCACCTGTGGG	5940
5881	DB	5881	TC	ACCAAGGGGACGCTGATCAGATGCGACAGAACATCAACAATAGCCACCTGTGGG	5940
5941	QY	5941	GT	CAGAAAGGGAGTTTACAAGAGGTAAAGGCCAAGCCATTTATTATCAAGACATGAC	6000
5941	DB	5941	GT	CAGAAAGGGAGTTTACAAGAGGTAAAGGCCAAGCCATTTATTATCAAGACATGAC	6000
6001	QY	6001	TC	AAATCAAGTCACAGGAGAGATTAGCTGGAGAGATGGGGCTGTCAGTGTGGGACAC	6060
6001	DB	6001	TC	AAATCAAGTCACAGGAGAGATTAGCTGGAGAGATGGGGCTGTCAGTGTGGGACAC	6060
6061	QY	6061	TC	ACTTGCATTTATTAGTCACCTAGGCCAAGGAGCAGTCACAGAGGGTCACCTGGTCTTA	6120
6061	DB	6061	TC	ACTTGCATTTATTAGTCACCTAGGCCAAGGAGCAGTCACAGAGGGTCACCTGGTCTTA	6120
6121	QY	6121	CT	CAGCTTGAGCAGGCACGTGGAGAAATGGTGAACCTCCATCTGATGGAGAGGCTGAG	6180
6121	DB	6121	CT	CAGCTTGAGCAGGCACGTGGAGAAATGGTGAACCTCCATCTGATGGAGAGGCTGAG	6180
6181	QY	6181	CAC	CAACAGGTACAAGTGTTCCTGTGTCTCATGCCAGGATTCCTGGCCAGTTTCAAG	6240
6181	DB	6181	CAC	CAACAGGTACAAGTGTTCCTGTGTCTCATGCCAGGATTCCTGGCCAGTTTCAAG	6240
6241	QY	6241	GAC	TAAAGGACTCATCTCTGTGTGAAACAAAGTATCCAAGCCCTAAGCCCAATTTTGGTCT	6300
6241	DB	6241	GAC	TAAAGGACTCATCTCTGTGTGAAACAAAGTATCCAAGCCCTAAGCCCAATTTTGGTCT	6300
6301	QY	6301	AA	TTAAATCAGAACCCCTGGGATGAGGCTCTGAGCAGCAGGAGCTTTTAAAGCTC	6360
6301	DB	6301	AA	TTAAATCAGAACCCCTGGGATGAGGCTCTGAGCAGCAGGAGCTTTTAAAGCTC	6360
6361	QY	6361	CC	AGGTGATTCTCATCAGCAGCTGGAACAAACACACAGCTACAGTTCAAACAGAAAGGC	6420
6361	DB	6361	CC	AGGTGATTCTCATCAGCAGCTGGAACAAACACACAGCTACAGTTCAAACAGAAAGGC	6420
6421	QY	6421	AA	AGCTAGGAAAGCTTGGATGGGGAGCCTTCTTCAGGCCAGTATGAGAGCTGTT	6480
6421	DB	6421	AA	AGCTAGGAAAGCTTGGATGGGGAGCCTTCTTTCAGGCCAGTATGAGAGCTGTT	6480
6481	QY	6481	AG	CAGTGGTGACGCTTCTCTGTGCTCATATAGCTATCATCCACTCATCTCATCTCAT	6540
6481	DB	6481	AG	CAGTGGTGACGCTTCTCTGTGCTCATATAGCTATCATCCACTCATCTCATCTCAT	6540



```
Db 8701 AAGCGGCTGTATAGACACACAGGATAGCTGCATATATAGCAAGACCTTTTCAAAA 8760
QY 8761 ACATGAGGAGGGGTATGTTTAAAGTGTGGGCTGTGTAAACAGGCACCTAAGGGAGCCAA 8820
Db 8761 ACATGAGGAGGGGTATGTTTAAAGTGTGGGCTGTGTAAACAGGCACCTAAGGGAGCCAA 8820
QY 8821 TGTAGACATTTGACTAAGAAAGGATCATCATCAAAAGCCGGGTGGGACAGGGTAGAGTTGG 8880
Db 8821 TGTAGACATTTGACTAAGAAAGGATCATCATCAAAAGCCGGGTGGGACAGGGTAGAGTTGG 8880
QY 8881 ACTACAGTGGTCAAGACCCCATAGGAAGCCAGTTTCCCTTCTTCTCTGGGCCCTCAAGC 8940
Db 8881 ACTACAGTGGTCAAGACCCCATAGGAAGCCAGTTTCCCTTCTTCTCTGGGCCCTCAAGC 8940
QY 8941 CTGGCTCGAGGCGCACTGCTCTCACATGCTTCTCTAGGCTCGTCCACCATG 8995
Db 8941 CTGGCTCGAGGCGCACTGCTCTCACATGCTTCTCTAGGCTCGTCCACCATG 8995

RESULT 2
US-10-087-192-205/C
; Sequence 205, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 205
; LENGTH: 493631
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(493631)
; OTHER INFORMATION: n = A,T,C or G
US-10-087-192-205
```

```
Query Match 1.9%; Score 170.4; DB 13; Length 493631;
Best Local Similarity 63.5%; Pred. No. 1e-34;
Matches 394; Conservative 0; Mismatches 181; Indels 45; Gaps 7;

QY 1833 TCTTTTAAAGGTATATGTTGGGAGGAGAGATGGCTCAGCTCCAGGACCTTGCTGC 1892
Db 28991 TCTTTACACAAATACTAGAGCTGGAGGATAGCTCAGAGTCAAGACACTGACTGC 28932
QY 1893 TCTTTCAGAGACCTAGATTGCTCCAGGACTCATATGTTGGCTCACAGCCATCTGTA 1952
Db 28931 TCTTTCAGAGACCTGGTTGGATTCCCATCATATATGGCTGCTCACACTGCTGTA 28872
QY 1953 AATCCAGTTCCAGAGGGTCCACACCCCTCTCTG-GCCTCCAGGACCCACATATAG 2011
Db 28871 ACTCCAGTTTAAAGATCGAATGCTCTCTTCTGAGGCCCCAGGGGCACTGCACACAT 28812
QY 2012 TACACA-GACATACATGAGGCAAAACAC-CCATACACATATAATAAATAAGGAACTT 2069
Db 28811 GACATAGACACATGTAGAAAAAACACATAAAATAGATTAATCACTCTGTAGACCA 28752
QY 2070 ABAAGGTGCATGTTGTTAAACATGTTGCTTACATGCTGTTGAAGACATGTAACAC 2129
Db 28751 GACTGGCTCGAACTCAGAAATCACTGCTCTGCTTCCAAAGTCTGGGATTAAGGC 28692
QY 2130 GCACAC-----ACTGAAGAGGGATCTGGGGCTGGAGA 2161
```

```
Db 28691 GTGGCCACCACCTGCTCAGCTTAAAGATTCTCTTAAGAACAGTAATGACGGGCTGGAGA 28632
QY 2162 GATGGCTCAGGGTTAAGACACTGACTGCTCTTCCGAAGAAAGGCTCTGAGTTCAAATC 2221
Db 28631 GATGGCTCAGTGGTTAAGACACCGACTGCTCTTCC-----GAAGATCCTGAGTTCAAATC 28576
QY 2222 CTAGCAACCATCATGCTGGCTCAACACCATCCATAAATGAGATCTGACACCCCTCTCTGGTG 2281
Db 28575 CCAGCAACCATCATGCTGGTAGCTCAACCATCCATTAAGATCTGACGCCCTCTCTGGTG 28516
QY 2282 CATCTGAAGACACGCTCAGAGCTACAGTGTACTTATAGATATACATAAATAAATCTTT--T 2339
Db 28515 TGTCTGAAGAC-----AGTTACAGTGTACTTAGATATAATAAATAAATCTTAA 28464
QY 2340 TTTTAAAAAATCAAGAGGATCTGAGACACCTCAAAAGAGATATGAGCAGTACTCAC 2399
Db 28463 AAAAAAATAAAGAACAGTAATGACGATGATGATGATAAAGAGTCTTCTGCTGTACTCAA 28404
QY 2400 GGCTGATTATCTATCCTCGA 2419
Db 28403 CTGAATAAATTTCTTAGGGA 28384

RESULT 3
US-10-087-192-271
; Sequence 271, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 271
; LENGTH: 63502
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(63502)
; OTHER INFORMATION: n = A,T,C or G
US-10-087-192-271
```

```
Query Match 1.9%; Score 166.6; DB 13; Length 63502;
Best Local Similarity 64.6%; Pred. No. 3.5e-34;
Matches 330; Conservative 0; Mismatches 169; Indels 12; Gaps 5;

QY 1857 GGGAGAGTGGCTCAGCTTCCAGGACACTTGTGCTCTTGCAGAGGACCTAGATTAGT 1916
Db 2258 GAGAGAGAGAGAGACTGCTCAGTGGTTAAGAGCTGCTATTGCGGAGGACCTTGGTTCGT 2317
QY 1917 TCCAGGACTCATATGTTGGCTCAGGCCATCTGTAATCCAGTTCAGAGGGTTCCACA 1976
Db 2318 TCCTAGCACCTTACATGG-GGTTCAATCATCCCTTACTCCAGTTCCT-GGGATCAGCT 2375
QY 1977 CCCTTCTTGGCTTCCAGGCAC-----CACATCATAGTACACAGACATACATGCAGGC 2032
Db 2376 AGCCCTTCTGACCTCTGAGGCACATGTCATACATGCTGTCATACATACATGTAAGC 2435
QY 2033 AAAACACCCATACACACATAAATAAAGGAACTTAAAGGTCATGCTGTTGTTAAAC 2092
Db 2436 AAAACACATGAAGAAATGATACATCTTGTAAATCTTTAAAGTCATTAAT--TTAA 2493
QY 2093 ATTGTCTTACATGCTGATTGAAGACATGTACAACGCACACTGAAGAGGATCTGG 2152
```

Db 2494 AGTATCCAAATCAATCTTTATGGATCTTTTGGTATCTCAAGTGAATAAATCAATTTGG 2553  
Qy 2153 GGCTGGAGATGCTCAGCGGTTAAGAGCACTGACTGCTCTCCGAAGGAGGTCCTGA 2212  
Db 2554 GGCTGGAGATGGCTCGTAGTTAAGAGCACTGACTGCTCTTCAG-----AGGTCA 2609  
Qy 2213 GTTCAAATCTAGCAACACATGTGGCTCAACCATCTCAATATGAGATCTGACACCT 2272  
Db 2610 GTTCAAATCCAGCAGCCACATGTGGCTCAACCATCTGTAATGGATCTGATGCCCT 2669  
Qy 2273 CTTCTGGTGCATCTGAAGACAGCTGCAGAGCTACAGTGTACTTAGATATATAAATA 2332  
Db 2670 CTTCTGGTGTATCTGCAGACAGCTACAGTGTATTTCATCATGTATATATAAATAAATA 2729  
Qy 2333 AATCTTTTTTAAATAAATGAAGGGATCT 2363  
Db 2730 CAATCTTTTAAAGAAAGAAAGAAAGCAATTT 2760

## RESULT 4

US-10-085-117-235/c

; Sequence 235, Application US/10085117

; Publication No. US2003023234A1

; GENERAL INFORMATION:

; APPLICANT: Morris, David W.

; APPLICANT: Engelhard, Eric K.

; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR CANCER

; FILE REFERENCE: 52945200121

; CURRENT APPLICATION NUMBER: US/10/085,117

; CURRENT FILING DATE: 2002-02-27

; PRIOR APPLICATION NUMBER: US 09/798,586

; PRIOR FILING DATE: 2001-03-02

; NUMBER OF SEQ ID NOS: 361

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 235

; LENGTH: 33488

; TYPE: DNA

; ORGANISM: Mus musculus

; FEATURE:

; NAME/KEY: variation

; LOCATION: (1)...(33488)

; OTHER INFORMATION: n = any nucleotide

US-10-085-117-235

Query Match 1.8%; Score 165; DB 17; Length 33488;

Best Local Similarity 81.5%; Pred. No. 6.6e-34;

Matches 216; Conservative 0; Mismatches 45; Indels 4; Gaps 2;

Qy 4497 GCATTTGGAGGCTGAAGCAGAGGATTTGCTATATGTTTGGCCAGGCTGAGCTATAGA 4556

Db 6269 GCTCTGTGAGGCTGAAGCAGAGAAAT---CATGAGTCCAGGCCACCTGGGCTACTTA 6213

Qy 4557 GCGAGACTTCTTTTAAAGAAAAATG-AAAGCCACAGCTGGTGGCAGCCCTTTAA 4615

Db 6212 GTGAGACTGGTCTTAAAAAAGCTGGGCTGGTGGTGGTGGTGGTGGTGGTGGTGGT 6153

Qy 4616 TCCAGCACTTTGGGAGGAGCAGGAGGATTTCTGAGTTCAAGCCAGGCTGGTCTAT 4675

Db 6152 TCCAGCACTTTGGAGCAGGAGGAGGATTTCTGAGTTGAGCCAGGCTGGTCTAC 6093

Qy 4676 AGAGTGAGTTCCAGACAGCCAGGCTACACAGAGAAACCTGTTTGAAGAACAGAAA 4735

Db 6092 AGAGTGAGTTCCAGACAGCCAGGCTACACAGAGAAACCTGTTCTCGAAAAAACA 6033

Qy 4736 AACAAAAAACAACAAAAACAA 4760

Db 6032 AAAAAAACAACAAAAAACA 6008

## RESULT 5

US-10-034-650-1/c

; Sequence 1, Application US/10034650

; Publication No. US20030216558A1  
; GENERAL INFORMATION:  
; APPLICANT: Morris, David  
; APPLICANT: Engelhard, Eric  
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR  
; TITLE OF INVENTION: CANCER  
; FILE REFERENCE: 52945200128  
; CURRENT APPLICATION NUMBER: US/10/034,650  
; CURRENT FILING DATE: 2002-07-23  
; PRIOR APPLICATION NUMBER: US 09/474,377  
; PRIOR FILING DATE: 1999-12-29  
; PRIOR APPLICATION NUMBER: US 09/798,586  
; PRIOR FILING DATE: 2001-03-02  
; NUMBER OF SEQ ID NOS: 61  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 31632  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-10-034-650-1

Query Match 1.8%; Score 164; DB 17; Length 31632;

Best Local Similarity 77.4%; Pred. No. 1.2e-33;

Matches 212; Conservative 0; Mismatches 60; Indels 2; Gaps 1;

Qy 4485 TGTATAATCTGAGCACTTGGGAGGCTGAAGCAGGAGGATTCCTATATCTTTGAGGCCAGC 4544

Db 20513 TGGGAATCTCAACATTCAGAAAGCTGGGAGGATTCCTATATCTTTGAGGCCAGC 20454

Qy 4545 CTGAGCTATAGAGCGAGACTTTTGTCTTTTAAAGAAAAATGAAGCCAGCAGTGGTGCA 4604

Db 20453 CTGGCGTATAGTTTGAGACCTGTTTTTAAATGACAA--CCAGCCGGCAGTGGTGCA 20396

Qy 4605 CACGCTTTAATCCAGCACTTTGGGAGGAGCAGGAGGAGGAGGAGGAGGAGGAGGAGG 4664

Db 20395 TACACCTTTAATCCAGCACTCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 20336

Qy 4665 GCCTGGTCTATAGTGTAGTTCAGGAGCAGGCTCCAGGAGCAGGCTCCAGGAGCAGG 4724

Db 20335 GCCTGGTCTCAAAAGTGTAGTTCAGGAGCAGGCTCCAGGAGCAGGCTCCAGGAG 20276

Qy 4725 AAAACACAGAAAAACAAACAAACAAACAAACAAAC 4758

Db 20275 AAAACTGAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAACC 20242

## RESULT 6

US-10-322-696-25

; Sequence 25, Application US/10322696

; Publication No. US20040168490A1

; GENERAL INFORMATION:

; APPLICANT: Morris, David W.

; APPLICANT: Malandro, Marc

; TITLE OF INVENTION: NOVEL THERAPEUTIC TARGETS IN CANCER

; FILE REFERENCE: 529452001200

; CURRENT APPLICATION NUMBER: US/10/322,696

; CURRENT FILING DATE: 2003-10-17

; NUMBER OF SEQ ID NOS: 186

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 25

; LENGTH: 21781

; TYPE: DNA

; ORGANISM: Mus musculus

US-10-322-696-25

Query Match 1.8%; Score 161.4; DB 19; Length 21781;

Best Local Similarity 81.0%; Pred. No. 5.2e-33;

Matches 200; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

Qy 4516 AGGAGGATTTGCTATATGTTTGGAGCCAGCCTGAGCTATAGACGAGACTTTGTTCTTAAG 4575

Db 4520 AGATGGATCTCTGTGAGTTCAAGCACACCCAGAGCTACACAGTGAAGCCCTGTC-TCAAG 4578



```

; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(27383)
; OTHER INFORMATION: n = A,T,C or G
US-10-322-696-133

Query Match      1.8%; Score 158.8; DB 19; Length 27383;
Best Local Similarity 81.4%; Pred. No. 3.2e-32;
Matches 184; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

Qy 4559 GAGACATTGCTTTTAAGAAAAAATAAGAACCCAGCAGTGGTGGGCACACAGCGCTTTTAATCC 4618
Db 6619 GATACCCCTATCTTTAAAAAACAAACAAACAGCGCGTGGTGGCGCAGCGCTTTTAATCC 6678
Qy 4619 CAGCAGCTTGGGAGGCGAGAGCAGGCGAGATTCTCTGAGTTCAAGGCGCAGCGCTGTCTATAGA 4678
Db 6679 CAGCAGCTCGGAGGCGAGAGCAGGCGCGGATTTCTGAGTTCAGGCGCAGCGCTGTCTACAA 6738
Qy 4679 GTGAGTTTCCAGGACAGCCAGGCGGTACACAGAGAAACCCCTGTTTGTGAAAAACACAGAAAAAC 4738
Db 6739 GTGAGTTCCAGGACAGCCAGGCGGTACACAGAGAAACCCCTGTCTGTGAAAAACACAAAAAAC 6798
Qy 4739 AAAAAACAAACAAAAACAAAAACCCCAAAACCCCAAAACCTC 4784
Db 6799 AAAAAACAAACAAAAACAAAAACAAACAAACAAACAAACAAACAAACCC 6844

```

```

RESULT 10
US-10-087-192-1705
; Sequence 1705, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 1705
; LENGTH: 26345
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-087-1192-1705

```

```

RESULT 11
US-10-087-192-1663/c
; Sequence 1663, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1663
; LENGTH: 193853
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(193853)
; OTHER INFORMATION: n = A,T,C or G
US-10-087-192-1663

Query Match      1.8%; Score 157.6; DB 13; Length 193853;
Best Local Similarity 85.8%; Pred. No. 2.4e-31;
Matches 175; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

Qy 4559 GAGACTTTGCTTTAAGAAAAAATGAAGCCCAAGCAGTGGTGGCACACGCGCTTTAATCC 4618
Db 123834 GAGAACTTTGTTTTTAAAGGCAACAATGAGCGAGCAGTGGTGGCACACGCGCTTTAATCC 123775

Qy 4619 CAGCACTTGGGAGGCAGAAAGCAGGCAGATTCTCAGTTTCAAGGGCAGCGCTGGTCTATAGA 4678
Db 123774 TAGCATTGGAGGCAGAGGAGCGCGGATTTCTGAGTTCAAGGCAGCGCTGGTCTACAGA 123715

Qy 4679 GTGAGTTCCAGGACAGCAGCGGCTTACACAGAGAAACCGCTGTTTTGAAAAAACCCAGAAAAAC 4738
Db 123714 GTGAGTTCCAGGACAGTCAGGCGTACACAGAGAAACCGCTGTCTCGAAAAACCAAAAAAAA 123655

Qy 4739 AAAACAAAAACAAACAAAAA 4762
Db 123654 AAAAAAAAAAAAAAAAAAAAAA 123631

```

```

RESULT 12
US-10-322-281-817/c
; Sequence 817, Application US/10322281
; Publication No. US20040126762A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc S. Malandro
; TITLE OF INVENTION: Novel Compositions and Methods in Cancer
; FILE REFERENCE: 529452001000
; CURRENT APPLICATION NUMBER: US/10/322,281
; CURRENT FILING DATE: 2002-12-17
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 817
; LENGTH: 93329
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(93329)
; OTHER INFORMATION: n = A,T,C or G
US-10-322-281-817

```



Query Match 1.7%; Score 156.2; DB 19; Length 93329;  
Best Local Similarity 78.0%; Pred. No. 3.8e-31;  
Matches 188; Conservative 0; Mismatches 53; Indels 0; Gaps 0;  
QY 4547 GAGCTATAGCGAGACTTGTCTTAAGAAAAAATGAAGCCAGCAGTGGTGGCACA 4606  
DB 32422 GAAATATATAACAAATAATTTATATAAGATAAAACAAAAGCCGGGTGGTGGCGCA 32363  
QY 4607 CGCCTTTAATCCAGCAGCTTTGGGAGGCGAAGCAGGCGAGTTCTGTAGTTCAGAGCCAGC 4666  
DB 32362 CGCCTTTAATCCAGCAGCTTTGGGAGGCGAAGCAGGCGAGTTCTGTAGTTCAGAGCCAGC 32303  
QY 4667 CTGGCTATAGAGTGTAGTTCAGGAGCAGCCAGGGTACACAGAGAAACCTGTTTGA 4726  
DB 32302 CTGGTCTACAAAGTGTAGTTCAGGAGCAGCCAGGGCTATACAGAGAAACCTGTTCTG 32243  
QY 4727 AACCAAGAAAAACAAAACAAAACAAAACAAAACAAAACAAAACAAAACCTTCTC 4786  
DB 32242 AACCAAGAAAAAACAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCTATC 32183  
QY 4787 A 4787  
DB 32182 A 32182

RESULT 13  
US-10-367-094-142  
; Sequence 142, Application US/10367094  
; Publication No. US20040170982A1  
; GENERAL INFORMATION:  
; APPLICANT: David W. Morris  
; APPLICANT: Marc Malandro  
; TITLE OF INVENTION: Novel Therapeutic Targets in Cancer  
; FILE REFERENCE: 529452001500  
; CURRENT APPLICATION NUMBER: US/10/367,094  
; CURRENT FILING DATE: 2003-02-14  
; NUMBER OF SEQ ID NOS: 203  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 142  
; LENGTH: 24495  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; NAME/KEY: misc feature  
; LOCATION: (1)...(24495)  
; OTHER INFORMATION: n = A,T,C or G  
US-10-367-094-142

Query Match 1.7%; Score 156; DB 19; Length 24495;  
Best Local Similarity 81.8%; Pred. No. 1.9e-31;  
Matches 180; Conservative 0; Mismatches 40; Indels 0; Gaps 0;  
QY 4563 CTTTGTCTTTAAGAAAAAATGAAGCCAGCAGTGGTGGCAGCAGCTTTAATCCAGC 4622  
DB 2471 CTTGATTTAAAAAAGAAAAAAGCCGGGTGATGACACAGCCTTTAATCCAGC 2530  
QY 4623 ACTTGGAGGAGAGCAGGAGATTTCTGAGTTCAGGCGCAGCTGTCTATAGAGTGA 4682  
DB 2531 ACTTGGAGGAGCAGGAGGAGTGGATTTCTGAGTTCAGGCGCAGCTGTCTACAAAGTGA 2590  
QY 4683 GTTCCAGACAGCAGGCGTACACAGAGAAACCTGTTTGAAGAACCAACCAACCAACCA 4742  
DB 2591 GTTCCAGACAGCAGGCGTACACAGAGAAACCTGTTCTCAAAAAACAAAAA 2650  
QY 4743 CAAACAAAAACAAACAAAAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 4782  
DB 2651 CCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAAC 2690

RESULT 14  
US-10-087-192-907  
; Sequence 907, Application US/10087192  
; Publication No. US20020182586A1

GENERAL INFORMATION:  
; APPLICANT: Morris, David W.  
; APPLICANT: Engelhard, Eric K.  
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR  
; FILE REFERENCE: 529452000122  
; CURRENT APPLICATION NUMBER: US/10/087,192  
; CURRENT FILING DATE: 2002-03-01  
; PRIOR APPLICATION NUMBER: US 09/747,377  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: US 09/798,586  
; PRIOR FILING DATE: 2001-03-02  
; NUMBER OF SEQ ID NOS: 2059  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 907  
; LENGTH: 31400  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; NAME/KEY: misc feature  
; LOCATION: (1)...(31400)  
; OTHER INFORMATION: n = A,T,C or G  
US-10-087-192-907

Query Match 1.7%; Score 155.6; DB 13; Length 31400;  
Best Local Similarity 87.6%; Pred. No. 2.8e-31;  
Matches 170; Conservative 0; Mismatches 24; Indels 0; Gaps 0;  
QY 4587 AGCCAGCAGTGGTGGCAGCAGCCTTTAATCCAGCAGCTTTGGGAGGCGAAGCAGCAGA 4646  
DB 294 AGCCAGCAGTGGTGGCAGCAGCCTTTAATCCAGCAGCTTTGGGAGGCGAAGCAGCAGTAGA 353  
QY 4647 TTTCTGAGTTCAGGCGCAGCCTGTCTATAGAGTGTGAGTTCAGGAGCAGCAGGCTTACAC 4706  
DB 354 TTTCTGAGTTCAGGCGCAGCCTGTCTACAGAGTGTGAGTTCAGGAGCAGCAGGCTTACAC 413  
QY 4707 AGAGAAACCTCTTTTGAAGAACCAAGAAACCAAGAAACCAAGAAACCAAGAAACCAAGAA 4766  
DB 414 AGAGAAACCTCTCTTGAAGAACCAAGAAACCAAGAAACCAAGAAACCAAGAAACCAAGAGTT 473  
QY 4767 AACCCAAACCCAAA 4780  
DB 474 GAATCATACATAAA 487

RESULT 15  
US-09-997-722-31  
; Sequence 31, Application US/09997722  
; Publication No. US20040072154A1  
; GENERAL INFORMATION:  
; APPLICANT: Morris, David  
; APPLICANT: Engelhard, Eric  
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR CANCER  
; FILE REFERENCE: A-71171/RMS/DCF  
; CURRENT APPLICATION NUMBER: US/09/997,722  
; CURRENT FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: US 09/747,377  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: US 09/798,586  
; PRIOR FILING DATE: 2001-03-02  
; NUMBER OF SEQ ID NOS: 301  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 31  
; LENGTH: 94381  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; NAME/KEY: misc feature  
; LOCATION: (2681)..(2700)  
; OTHER INFORMATION: "n" at positions 2681 through 2700 can be any base.  
; NAME/KEY: misc feature  
; LOCATION: (11224)..(11290)





**THIS PAGE BLANK (USPTO)**

**THIS PAGE BLANK (USPTO)**